RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/625,882_
Source: _QIPE_
Date Processed by STIC: _8/5/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _10/625,882_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

2____Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
Numbering   use space characters, instead.

4____Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
ensure your subsequent submission is saved in ASCII text.

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
each n or Xaa can only represent a single residue. Please present the maximum number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
"bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.

7____Skipped Sequences   Sequence(s)____missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences   Sequence(s)____missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response   scientific name (Genus/species). <220>-<223> section if required when <213> response is Unknown or
is Artificial Sequence

11____Use of <220>   Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
"Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n   n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent
any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING   DATE: 08/05/2003
PATENT APPLICATION: **US/10/625,882**   TIME: 14:23:00

Input Set : **A:\Sequence listing CIP.txt**
Output Set: **N:\CRF4\08052003\J625882.raw**

```
   4 <110> APPLICANT: BEAUREGARD, Marc
   5        GAGNON, Mylene-Claude
   6        DOUCET, Alain
   7        WILLIAMS, Martin
   8        AGROTERRA BIOTECH INC.
  10 <120> TITLE OF INVENTION: MB-1 ANALOGS AND USES THEREOF
  13 <130> FILE REFERENCE: 15493-1US-1
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/625,882
C--> 15 <141> CURRENT FILING DATE: 2003-07-24
  15 <150> PRIOR APPLICATION NUMBER: 60/329,759
  16 <151> PRIOR FILING DATE: 2001-10-18
  18 <160> NUMBER OF SEQ ID NOS: 30
  20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  22 <210> SEQ ID NO: 1
  23 <211> LENGTH: 100
  24 <212> TYPE: PRT
  25 <213> ORGANISM: Recombinant molecule
  27 <220> FEATURE:
  28 <221> NAME/KEY: VARIANT
  29 <222> LOCATION: (1)...(100)
  30 <223> OTHER INFORMATION: MB-1Trp
  33 <400> SEQUENCE: 1
  34 Met Ala Thr Glu Asp Met Thr Asp Met Met Thr Thr Leu Phe Lys Thr
  35  1               5                  10                  15
  36 Met Gln Leu Leu Thr Lys Ser Glu Pro Thr Ala Met Asp Glu Ala Thr
  37              20                  25                  30
  38 Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln Lys
  39          35                  40                  45
  40 Thr Lys Asn Lys Glu Asp Met Thr Asp Met Ala Thr Thr Trp Phe Lys
  41      50                  55                  60
  42 Thr Met Gln Leu Leu Thr Lys Thr Glu Pro Ser Ala Met Asp Glu Ala
  43 65                  70                  75                  80
  44 Thr Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln
  45              85                  90                  95
  46 Lys Gly Val Ala
  47             100
  49 <210> SEQ ID NO: 2
  50 <211> LENGTH: 100
  51 <212> TYPE: PRT
  52 <213> ORGANISM: Recombinant molecule
  54 <220> FEATURE:
  55 <221> NAME/KEY: VARIANT
  56 <222> LOCATION: (1)...(0)
```

invalid response

Does Not Comply
Corrected Diskette Needed

pp 1-5

see item 10 on Error Summary Sheet

RAW SEQUENCE LISTING   DATE: 08/05/2003
PATENT APPLICATION: US/10/625,882   TIME: 14:23:00

Input Set : A:\Sequence listing CIP.txt
Output Set: N:\CRF4\08052003\J625882.raw

```
57 <223> OTHER INFORMATION: MB-1TrpRH
60 <400> SEQUENCE: 2
61 Met Ala Thr Glu Asp Met Thr Asp Met Cys Thr Thr Leu Phe Lys Thr
62  1               5                   10                  15
63 Met Gln Leu Leu Thr Lys Ser Glu Pro Thr Ala Met Asp Glu Ala Thr
64              20                  25                  30
65 Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln Lys
66          35                  40                  45
67 Thr Lys Asn Lys Glu Asp Met Thr Asp Met Ala Thr Thr Trp Phe Lys
68      50                  55                  60
69 Thr Met Gln Leu Leu Thr Lys Thr Glu Pro Ser Ala Met Asp Glu Ala
70 65                  70                  75                  80
71 Thr Lys Thr Ala Thr Thr Met Lys Asn His Cys Gln Asn Leu Met Gln
72              85                  90                  95
73 Lys Gly Val Ala
74              100
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 100
78 <212> TYPE: PRT
79 <213> ORGANISM: Recombinant molecule
81 <220> FEATURE:
82 <221> NAME/KEY: VARIANT
83 <222> LOCATION: (1)...(100)
84 <223> OTHER INFORMATION: MB-1LH
87 <400> SEQUENCE: 3
88 Met Ala Thr Glu Asp Met Thr Asp Met Met Thr Thr Cys Phe Lys Thr
89  1               5                   10                  15
90 Met Gln Leu Leu Thr Lys Ser Glu Pro Thr Ala Met Asp Glu Ala Thr
91              20                  25                  30
92 Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln Lys
93          35                  40                  45
94 Thr Lys Asn Lys Glu Asp Met Thr Asp Met Ala Thr Thr Tyr Phe Lys
95      50                  55                  60
96 Thr Met Gln Leu Leu Thr Lys Thr Glu Pro Ser Ala Met Asp Glu Ala
97 65                  70                  75                  80
98 Thr Lys Thr Ala Thr Thr Cys Lys Asn His Leu Gln Asn Leu Met Gln
99              85                  90                  95
100 Lys Gly Val Ala
101             100
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 100
105 <212> TYPE: PRT
106 <213> ORGANISM: Recombinant molecule
108 <220> FEATURE:
109 <221> NAME/KEY: VARIANT
110 <222> LOCATION: (1)...(100)
111 <223> OTHER INFORMATION: MB-1RH
114 <400> SEQUENCE: 4
115 Met Ala Thr Glu Asp Met Thr Asp Met Cys Thr Thr Leu Phe Lys Thr
```

```
116  1                  5                  10                15
117 Met Gln Leu Leu Thr Lys Ser Glu Pro Thr Ala Met Asp Glu Ala Thr
118              20                  25                30
119 Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln Lys
120              35                  40                45
121 Thr Lys Asn Lys Glu Asp Met Thr Asp Met Ala Thr Thr Tyr Phe Lys
122      50                  55                60
123 Thr Met Gln Leu Leu Thr Lys Thr Glu Pro Ser Ala Met Asp Glu Ala
124 65                  70                  75                80
125 Thr Lys Thr Ala Thr Thr Met Lys Asn His Cys Gln Asn Leu Met Gln
126              85                  90                95
127 Lys Gly Val Ala
128              100
130 <210> SEQ ID NO: 5
131 <211> LENGTH: 100
132 <212> TYPE: PRT
133 <213> ORGANISM: Recombinant molecule
135 <220> FEATURE:
136 <221> NAME/KEY: VARIANT
137 <222> LOCATION: (1)...(100)
138 <223> OTHER INFORMATION: MB-1TrpLH
141 <400> SEQUENCE: 5
142 Met Ala Thr Glu Asp Met Thr Asp Met Met Thr Thr Cys Phe Lys Thr
143  1                  5                  10                15
144 Met Gln Leu Leu Thr Lys Ser Glu Pro Thr Ala Met Asp Glu Ala Thr
145              20                  25                30
146 Lys Thr Ala Thr Thr Met Lys Asn His Leu Gln Asn Leu Met Gln Lys
147              35                  40                45
148 Thr Lys Asn Lys Glu Asp Met Thr Asp Met Ala Thr Thr Trp Phe Lys
149      50                  55                60
150 Thr Met Gln Leu Leu Thr Lys Thr Glu Pro Ser Ala Met Asp Glu Ala
151 65                  70                  75                80
152 Thr Lys Thr Ala Thr Thr Cys Lys Asn His Leu Gln Asn Leu Met Gln
153              85                  90                95
154 Lys Gly Val Ala
155              100
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 303
159 <212> TYPE: DNA
160 <213> ORGANISM: Recombinant molecule
162 <220> FEATURE:
163 <221> NAME/KEY: gene
164 <222> LOCATION: (1)...(303)
165 <223> OTHER INFORMATION: MB-1Trp
168 <400> SEQUENCE: 6
169 atggctacgg aagacatgac cgacatgatg accaccctgt ttaaaactat gcagctgttg      60
170 accaagtcgg aacccacggc tatggacgag gccactaaaa cggctactac aatgaagaat     120
171 catcttcaaa acctgatgca gaagactaag aacaaagaag acatgacgga catggccact     180
172 acgtggttca aaacgatgca gttgttaacg aagaccgacc cctcggccat ggacgaggcc     240
```

```
173 acgaagacgg ctacaaccat gaaaaatcat ctgcagaact tgatgcaaaa aggcgtagct    300
174 taa                                                                  303
176 <210> SEQ ID NO: 7
177 <211> LENGTH: 302
178 <212> TYPE: DNA
179 <213> ORGANISM: Recombinant molecule
181 <220> FEATURE:
182 <221> NAME/KEY: gene
183 <222> LOCATION: (1)...(302)
184 <223> OTHER INFORMATION: MB-1TrpRH
187 <400> SEQUENCE: 7
188 atggctacgg aagacatgac cgacatgtgc accaccctgt ttaaaactat gcagctgttg     60
189 accaagtcgg aacccacggc tatggacgag gccactaaaa cggctactac aatgaagaat    120
190 catcttcaaa acctgatgca gaagactaag aacaaagaag acatgacgga catggccact    180
191 acgtgcttca aaacgatgca gttgttaacg aagaccgagc cctcggccat ggacgaggcc    240
192 acgaagacgg ctacaaccat gaaaaatcat tgccagaact tgatgcaaaa aggcgtagct    300
193 ta                                                                   302
195 <210> SEQ ID NO: 8
196 <211> LENGTH: 303
197 <212> TYPE: DNA
198 <213> ORGANISM: Recombinant molecule
200 <220> FEATURE:
201 <221> NAME/KEY: gene
202 <222> LOCATION: (1)...(3)
203 <223> OTHER INFORMATION: MB-1LH
206 <400> SEQUENCE: 8
207 atggctacgg aagacatgac cgacatgatg accacctgct ttaaaactat gcagctgttg     60
208 accaagtcgg aacccacggc tatggacgag gccactaaaa cggctactac aatgaagaat    120
209 catcttcaaa acctgatgca gaagactaag aacaaagaag acatgacgga catggccact    180
210 acgtacttca aaacgatgca gttgttaacg aagaccgagc cctcggccat ggacgaggcc    240
211 acgaagacgg ctacaacctg caaaaatcat ctgcagaact tgatgcaaaa aggcgtagct    300
212 taa                                                                  303
214 <210> SEQ ID NO: 9
215 <211> LENGTH: 303
216 <212> TYPE: DNA
217 <213> ORGANISM: Recombinant molecule
219 <220> FEATURE:
220 <221> NAME/KEY: gene
221 <222> LOCATION: (1)...(303)
222 <223> OTHER INFORMATION: MB-1RH
225 <400> SEQUENCE: 9
226 atggctacgg aagacatgac cgacatgtgc accaccctgt ttaaaactat gcagctgttg     60
227 accaagtcgg aacccacggc tatggacgag gccactaaaa cggctactac aatgaagaat    120
228 catcttcaaa acctgatgca gaagactaag aacaaagaag acatgacgga catggccact    180
229 acgtacttca aaacgatgca gttgttaacg aagaccgagc cctcggccat ggacgaggcc    240
230 acgaagacgg ctacaaccat gaaaaatcat tgccagaact tgatgcaaaa aggcgtagct    300
231 taa                                                                  303
233 <210> SEQ ID NO: 10
234 <211> LENGTH: 303
```

```
235 <212> TYPE: DNA
236 <213> ORGANISM: Recombinant molecule
238 <220> FEATURE:
239 <221> NAME/KEY: gene
240 <222> LOCATION: (1)...(303)
241 <223> OTHER INFORMATION: MB-1TrpLH
244 <400> SEQUENCE: 10
245 atggctacgg aagacatgac cgacatgatg accacctgct ttaaaactat gcagctgttg      60
246 accaagtcgg aacccacggc tatggacgag gccactaaaa cggctactac aatgaagaat     120
247 catcttcaaa acctgatgca gaagactaag aacaaagaag acatgacgga catggccact     180
248 acgtggttca aaacgatgca gttgttaacg aagaccgagc cctcggccat ggacgaggcc     240
249 acgaagacgg ctacaacctg caaaaatcat ctgcagaact tgatgcaaaa aggcgtagct     300
250 taa                                                                    303
252 <210> SEQ ID NO: 11
253 <211> LENGTH: 27
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: MB-1-11
260 <400> SEQUENCE: 11
261 atggccacta cgtacttcaa aacgatg                                          27
263 <210> SEQ ID NO: 12
264 <211> LENGTH: 27
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Tyr62Trp
271 <400> SEQUENCE: 12
272 atggccacta cgtggttcaa aacgatg                                          27
274 <210> SEQ ID NO: 13
275 <211> LENGTH: 27
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: MG-1-13
282 <400> SEQUENCE: 13
283 atgatgacca ccctgtttaa aactatg                                          27
285 <210> SEQ ID NO: 14
286 <211> LENGTH: 27
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Oligo 1 L13C
293 <400> SEQUENCE: 14
294 atgatgacca cctgctttaa aactatg                                          27
296 <210> SEQ ID NO: 15
297 <211> LENGTH: 27
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
```

Please correct this error if it appears in subsequent sequences.

VERIFICATION SUMMARY DATE: 08/05/2003
PATENT APPLICATION: **US/10/625,882** TIME: 14:23:01

Input Set : **A:\Sequence listing CIP.txt**
Output Set: **N:\CRF4\08052003\J625882.raw**

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date